E-MU

Getting Started

PCIe

0404

Digital Audio System

0404 PCIe Digital Audio System

Quick Start Guide

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1 - Introduction

Thank you for purchasing the E-MU 0404 PCIe digital audio system. We've designed the 0404 Digital Audio System to be logical, intuitive and above all, to provide you with pristine sound quality. All three systems provide true studio-quality, 24-bit/192kHz multi-channel recording and playback at a truly astounding price.

System Requirements

- Intel® or AMD® processor operating at 1 GHz or faster
- Intel, AMD or 100% compatible motherboard & chipset
- Windows XP - SP2 or higher, or Windows Vista - SP1 or higher
- 512 MB RAM
- 500 MB of free hard disk space for full installation
- Available PCIe 1.1 compliant slot
- XVGA Video (1024 x 768)
- CD-ROM drive required for software installation
- Headphones or amplified speakers

Other applications may have higher system requirements or may require a microphone.

Package Contents

E-MU 0404 PCIe
▪ E-MU 0404 PCIe card
▪ Digital Breakout Cable
▪ Analog breakout Cable
▪ E-MU Digital Audio System Software/Driver Install CD-ROM
▪ Production Tools Software Bundle CD-ROM
▪ Quick Start Guide

Safety First!

As you install hardware components, observe the following general precautions to avoid damage to your equipment and yourself.

- To avoid possible permanent damage to your hardware, make sure that all connections are made to the E-MU 0404 PCIe card with the host computer's power off.
  Unplug the computer's power cable to make sure that the computer is not in sleep mode.
- Take care to avoid static damage to any components of your system. Internal computer surfaces, the E-MU 0404 PCIe board and the interfaces are susceptible to electrostatic discharge, commonly known as "static". Electrostatic discharge can damage or destroy electronic devices. Here are some procedures you can follow when handling electronic devices in order to minimize the possibility of causing electrostatic damage:
- Avoid any unnecessary movement, such as scuffing your feet when handling electronic devices, since most movement can generate additional charges of static electricity.
- Minimize the handling of the PCIe card. Keep it in its static-free package until needed. Transport or store the board only in its protective package.
- When handling a PCIe card, avoid touching its connector pins. Try to handle the board by its edges only.
- Before installing a PCIe card into your computer, you should be grounded. Use a ground strap to discharge any static electric charge built up on your body. The ground strap attaches to your wrist and any unpainted metal surface within your computer.
- Before connecting a cable to your interface, touch the connector sleeve of the cable to the sleeve of the jack to which you'll be connecting the cable in order to discharge any static build-up.

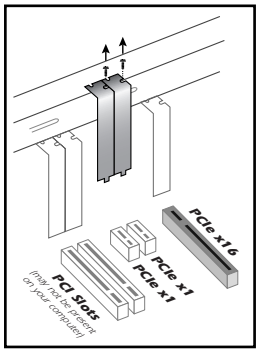
IMPORTANT! - Getting More Information

Refer to the various online Help files and the pdf Owner's Manual (on CD-ROM) for detailed information on the E-MU Digital Audio System and how to use it with various software applications.

Technical Support

As the E-MU Digital Audio System expands, you'll want to keep up with the latest software and new options for your E-MU Digital Audio System. You can find all of this—plus other helpful information—at **www.emu.com**. *Refer to your Owner's Manual pdf on CD for the technical support phone number. (Docs located here: Start, All Programs, Creative Professional)*

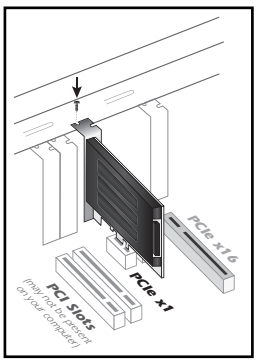
2 - Hardware Installation



Step 1: Prepare your computer

1. Turn off your computer and all peripheral devices.
2. Touch a metal plate on your computer to ground yourself and to discharge any static electricity, and then unplug the power cord from the wall outlet.
3. Remove the computer cover.
4. Remove the metal bracket from one of the PCIe slots. See the figure at left.

> **IMPORTANT:** Remove any other audio cards or motherboard audio, and uninstall the audio card or motherboard audio software from your PC before installing this card. Once the 0404 has been successfully installed and is working properly, you may be able to install another audio card.



Step 2: Install the E-MU 0404 PCIe card

1. Align the E-MU 0404 PCIe card with the slot and press gently but firmly down into the slot as shown in the figure at left.
2. Do not force the E-MU 0404 card into the slot. Make sure that the gold finger connector of the card is aligned with the PCIe bus connector on the motherboard before you insert the card into the PCIe slot. If it doesn't fit properly, gently remove it and try again.
3. Secure the card to the slot using a screw (if necessary).

Step 3: Close the Computer

1. Replace the cover to your computer.
2. Plug the power cord and peripheral devices into your computer and turn it back on.

3 - Software Installation

Installing the E-MU 0404 Drivers and Applications

The first time you restart your PC, you'll need to install the Patchmix DSP software and 0404 drivers.

Windows XP, Windows XP x64, Windows Vista, Windows Vista x64

(The software is not compatible with other versions of Windows.)

1. After installing the audio card, turn on your computer. Windows automatically detects your audio card and searches for device drivers. **IMPORTANT:** When the "Found New Hardware" window appears: Windows XP - Click **Cancel**; Windows Vista - Click **Don"t show this message again for this device**.
2. Insert the E-MU software Installation CD into your CD-ROM drive. If Windows AutoPlay mode is enabled for your CD-ROM drive, the CD starts running automatically. If not, from your Windows desktop, click **Start**->**Run** and type **d:setup.exe** (replace **d:** with the drive letter of your CD-ROM drive). You can also simply open the CD and double-click **Setup.exe**.
3. The installation splash screen appears. Follow the instructions on the screen to complete the installation.
4. Choose "Continue Anyway" when you encounter the "Windows Logo Testing" warning screen.
5. When prompted, restart your computer.

Uninstalling all Audio Drivers and Applications

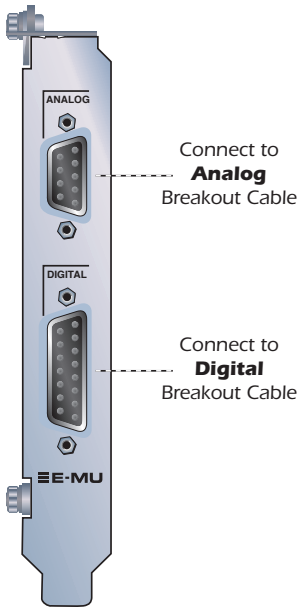
At times you may need to uninstall or reinstall some or all of the audio card's applications and device drivers to correct problems, change configurations, or upgrade outdated drivers or applications. Before you begin, close all audio card applications. Applications still running during the uninstallation will not be removed.

1. Click **Start** -> **Settings** -> **Control Panel**.
2. Double-click the **Add/Remove Programs** icon.
3. Click the **Install/Uninstall** tab (or **Change or Remove Programs** button).
4. Select the E-MU 0404 PCIe card entry, or the application entry and then click the **Add/Remove** (or **Change/Remove**) button.
5. In the **InstallShield Wizard** dialog box, select the **Remove** option.
6. Click the **Yes** button.
7. Restart your computer when prompted. You may now re-install existing or updated E-MU 0404 PCIe card device drivers or applications.

4 - E-MU 0404 PCIe Card

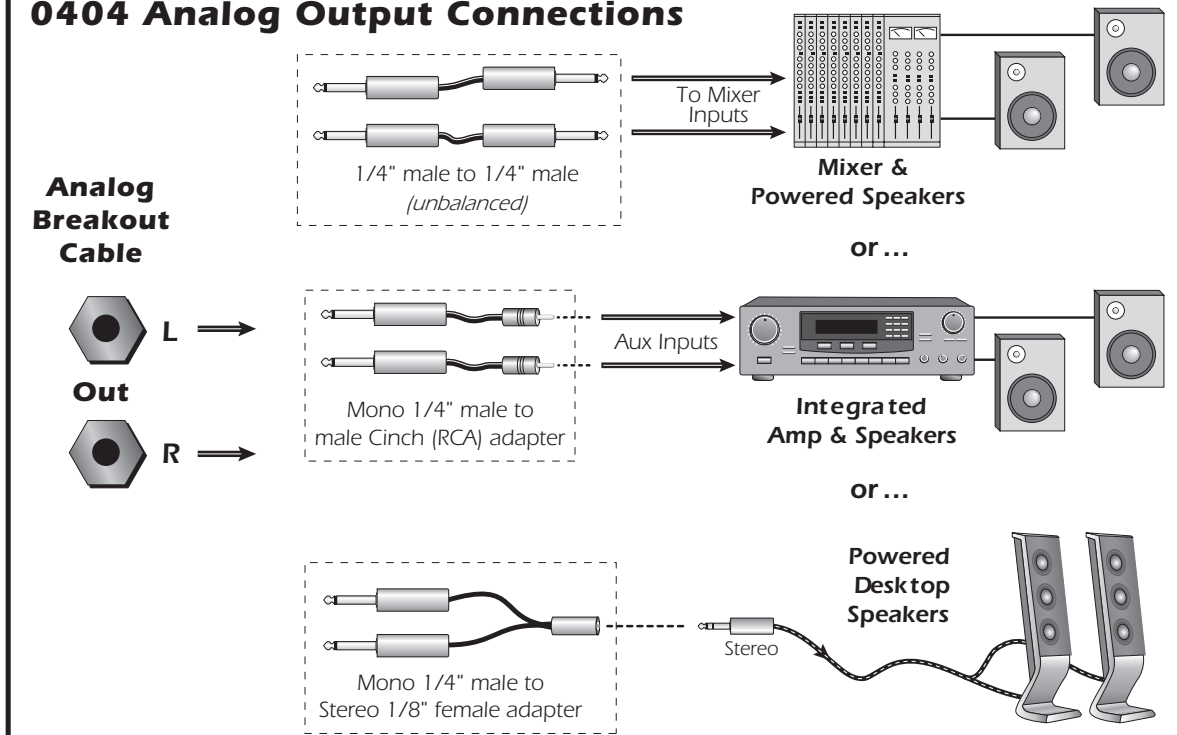
The E-MU 0404 PCIe card is the heart of the system and contains E-MU's powerful E-DSP chip. The hardware DSP on this card leaves more power free on your CPU for additional software plug-ins and other tasks.

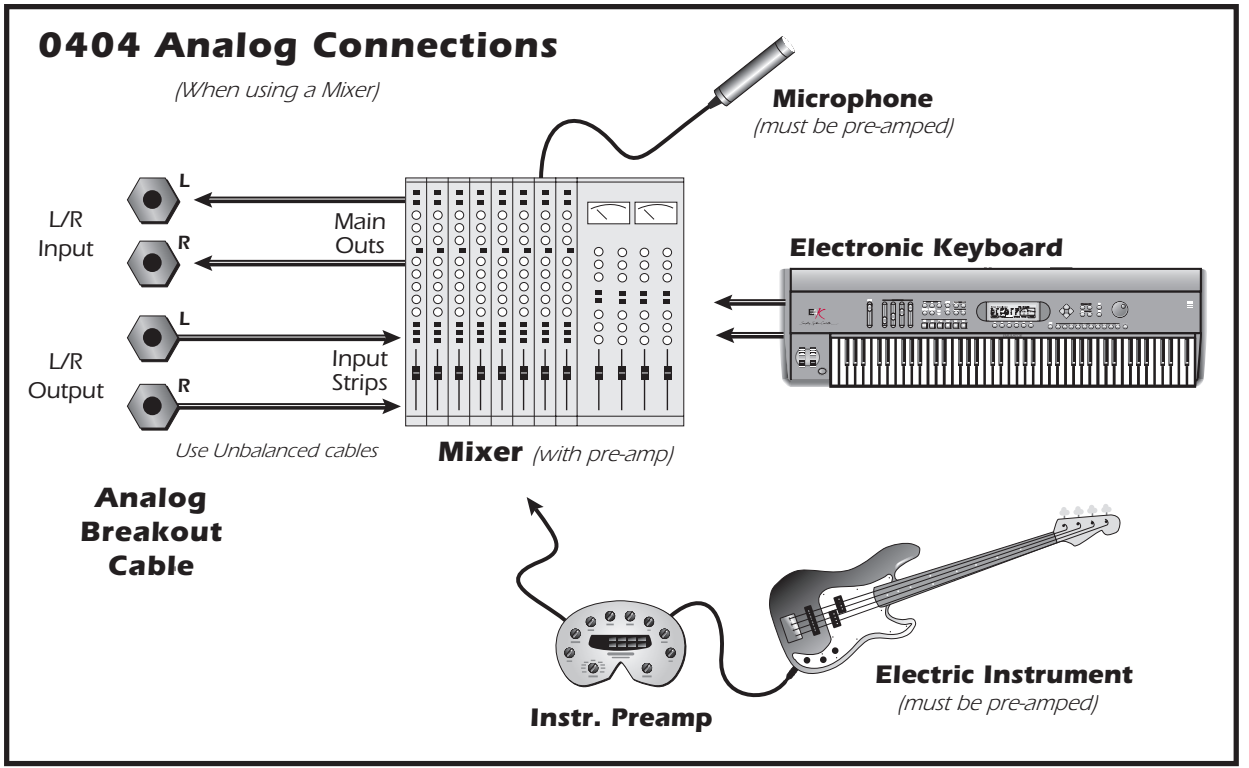
Connections

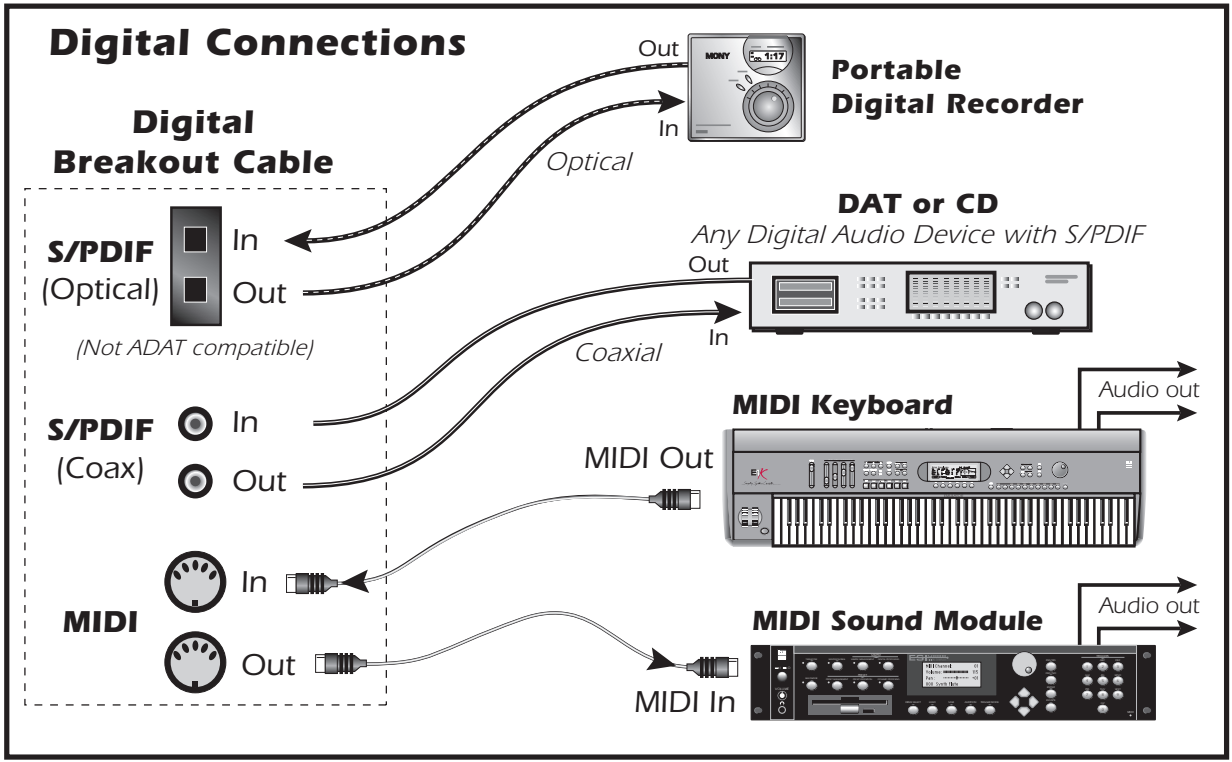


Analog Connectors	Connect the Analog Breakout Cable to the PCIe Card. ▪ Connect the supplied 1/4" jack breakout cable to the analog connections of your audio system or mixer. See the diagrams on the following pages. ▪ The outputs are not designed to drive headphones directly. Use a headphone amp or the headphone out of your receiver or mixer.
Digital Audio & MIDI Connectors	Connect the Digital Breakout Cable to the PCIe card. The cable provides MIDI in /out, and S/PDIF in/out. ▪ MIDI input and output ports allow you to connect any type of MIDI equipment, such as a keyboard, effect unit, drum or guitar controller. The MIDI drivers were installed when you installed PatchMix and the MIDI ports will appear in your PC System Control Panel under "Sounds and Audio Devices." ▪ S/PDIF provides 2 channels of 24-bit audio in and out via the RCA coaxial connectors or TOSLINK optical connectors on the Digital Breakout Cable. Connect to digital devices, such as a digital mixer, digital-to-analog converter, or an effect device. The optical S/PDIF and RCA coaxial S/PDIF inputs CANNOT be used simultaneously, however both S/PDIF outputs CAN be simultaneously used (carrying the same signal).

0404 Analog Output Connections




0404 Analog Connections
(When using a Mixer)
Microphone
(must be pre-amped)
L
R
L/R
Input
Main
Outs
Electronic Keyboard
L
R
L/R
Output
Input
Strips
Use Unbalanced cables
Mixer (with pre-amp)
Analog
Breakout
Cable
Instr. Preamp
Electric Instrument
(must be pre-amped)


Digital Connections
Digital
Breakout Cable
S/PDIF
(Optical)
In
Out
(Not ADAT compatible)
S/PDIF
(Coax)
In
Out
MIDI
In
Out
Out
In
Optical
Portable
Digital Recorder
DAT or CD
Any Digital Audio Device with S/PDIF
Out
In
Coaxial
MIDI Keyboard
Audio out
MIDI Out
MIDI Sound Module
Audio out
MIDI In

Note about Windows™ Logo Testing:

The Digital Audio System drivers are not signed because the driver does not support some of the consumer audio features that the Microsoft driver signing program requires, most notably Digital Rights Management. However, the Digital Audio System drivers have been rigorously tested using the same test procedures that a signed driver requires, and it passes in all important categories, including those that measure the relative stability of the driver. So, it is perfectly safe to install these drivers on your computer.

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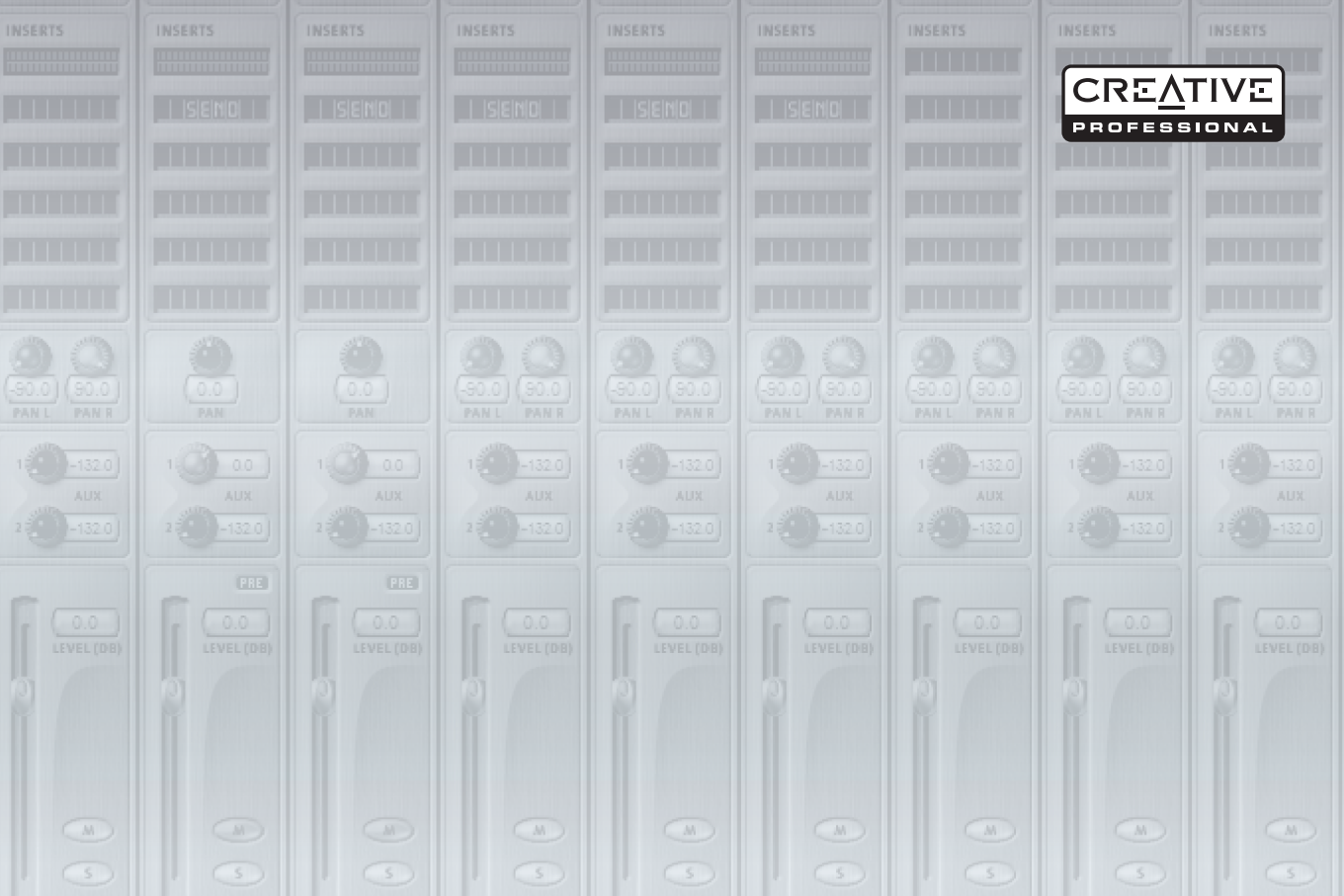
Warning

Handling the cord(s) on this product may expose you to lead, a chemical known to the State of California to cause cancer or birth defects or other reproductive harm. Wash hands after handling.

The use of the WEEE symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help protect the environment. For more detailed information about the recycling of this product, please contact your local authority, your household waste disposal service provider or the shop where you purchased the product.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